

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Ralph E. Gosney

GENERAL INFORMATION:

Name:	Kingsford Manufacturing Company
Address:	Metcalf County, PO Box 9 (5126 Summer Shade Road), Summer Shade, KY 42166
Date application received:	April 23, 2003/October 13, 2003/October 24, 2003/March 3, 2004/ June 17, 2004
SIC/Source description:	2861/Charcoal Briquet Manufacturing
EIS #:	21-169-00012
Application log number:	55677
Permit number:	V-04-025

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__ Administrative	<input checked="" type="checkbox"/> Title V
<input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Synthetic minor
__ Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Controlled Total (tpy)	Title V Potential (tpy)
CO	24	24
NO <sub>x</sub>	408	408
PM <sub>10</sub>	474	474
PT	484	484
SO <sub>2</sub>	32	32
CH <sub>3</sub> OH	0.4	0.4
VOC	124	124

SOURCE PROCESS DESCRIPTION:

The source manufactures charcoal briquets. The plant was constructed in the early 1990's by Hickory Specialties as a minor source. The plant was sold to Royal Oak and then to Kingsford Manufacturing Company in 1999. A PSD application was submitted in 1999 for increased production and modifications of units.

Kingsford Manufacturing Company was issued permit F-01-005 on July 2, 2001, subject to Prevention of Significant Deterioration (PSD) regulations for construction/modification increases in particulate matter (PM), particulate matter less than 10 microns (PM<sub>10</sub>), and nitrogen oxides (NO<sub>x</sub>) of over 100 tons per year (tpy). The facility is classified as a Title V major source of air pollution, based on the potential to emit more than 100 tpy of PM<sub>10</sub>, NO<sub>x</sub>, and volatile organic compounds (VOC). The Kingsford Summer Shade plant is also classified as a major source as defined by 401 KAR 51:017 and the federal PSD regulations in 40 CFR 52.21, based on the potential to emit more than 100 tpy of PM, PM<sub>10</sub>, NO<sub>x</sub>, and VOC.

The permittee has existing synthetic minor permits for limiting the emission of sulfur dioxide (SO<sub>2</sub>). The permittee has agreed to limit SO<sub>2</sub> emissions from Emission Unit 01, to preclude PSD significant revision applicability for the modification of the furnace/wood dryer (F-01-005), and from Emission Unit 02 and 03, for the installation of Briquet Dryer #3 and Briquet Cooler #3 (F-01-005 Revision 1).

Draft permit V-04-025 is for minor modifications to the facility, and is the first source-wide, Title V permit, for the facility. In order to preclude PSD significant revision applicability for the installation of the proposed Char Silo #4, Lime Silo, and Nitrate Silo, operating limits were taken in draft permit

V-04-025. The draft Title V permit includes a Compliance Assurance Monitoring (CAM) plan for particulate emissions from the After Combustion Chamber (ACC).

The proposed facility modifications will result in minor emissions increases, per PSD regulations. The facility potential emission increases from the minor revisions to the facility are as follows:

1. Increase plant's coal drop points limit from 50,000 tons/yr to 100,000 tons/yr	see #5
2. Addition of emission unit "Alternative Wood Truck Receipt"	1.89 tpy of PM 0.89 tpy of PM <sub>10</sub>
3. Change in vehicle miles traveled (VMT) on roadway emissions	2.73 tpy of PM 0.67 tpy of PM <sub>10</sub>
4. Increase in hourly briquet dryer/cooler production rate	(no change in emissions) 0.0 tpy of PM, PM <sub>10</sub> , and NO <sub>x</sub>
5. Emission calculation and modification for coal drop point	0.096 tpy of PM 0.046 tpy of PM <sub>10</sub>
6. STB emission basis on lbs VOC per ton of STB produced and request for 98 tons/yr limit on VOC	(no change in emissions) 0.0 tpy of VOC
7. Addition of emission units "Pile Wind Erosion and Bulldozer Traffic, Plant Roadways, and Outside Wood Storage"	2.75 tpy of PM 1.29 tpy of PM <sub>10</sub>
8. New lime silo, new char silo, and conversion of existing lime to starch silo	0.24 tpy of PM 0.23 tpy of PM <sub>10</sub>
9. New warehouse road and new lot	1.88 tpy of PM 0.50 tpy of PM <sub>10</sub>
TOTALS	0.0 tpy of VOC 9.59 tpy of PM 3.63 tpy of PM <sub>10</sub>

EMISSION AND OPERATING CAPS DESCRIPTION:

See table above

OPERATIONAL FLEXIBILITY:

N/A